

Figure 2a

	- - - -	UDP Translation Table 170a	able <u>170a</u>							
	- Poloci	Local Socket Inform	et Information	nation 175		Global Sock	Global Socket Information 177	n 177		Time
•	174 174	Source Source IP Address Port #	Source Port #	Destination Destination Dest	Destination Destination Source IP Addres	SSS	Source Port #	Destination Destination IP Address Port #	Destination Port #	Out 186
	~	DC 176	DC 178	182	184	MTA 185	MTA <u>180</u> General	182	184	
172	2	MTA 185	VOIP 258	182	184	MTA 185	VOIP 258	182	184	
	၁	Module <u>260</u>	VOIP 258	182	184	MTA 185	VOIP <u>258</u>	182	184	

	TCP 1	ICP Translation Table 170	ble 170b							
•	7000	Local Socket Inform	et Information 175	1 <u>75</u>		Global Sock	Global Socket Information 177	n 177		Time
	174 174	Source Source IP Address Port #	Source Port #	Destination Destination Dest	Destination Destination Source IP Address Port # IP Addres	SSS	Source Port #	Destination Destination IP Address Port #	Destination Port #	Out 186
	-	DC 176	DC 178	182	184	MTA 185	MTA <u>180</u> General	182	184	

	ICMP	ICMP Translation Table 170c	able <u>170c</u>				
(Index 174	IndexSourceDestinationSequence174IP AddressIP AddressNumber	Destination IP Address	စွ	ICMP Type	Global Source Time Out IB6	Time Out
	~	DC <u>176</u>	182	187	189	MTA <u>185</u>	
72	2	MTA <u>185</u>	182	187	189	MTA 185	
	က	Module 260	182	187	189	MTA 185	

Figure 2b

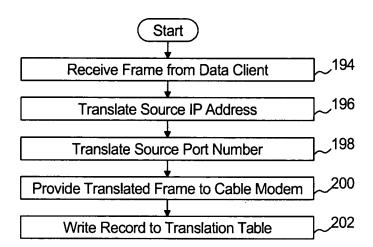


Figure 3a

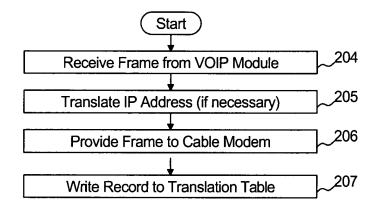
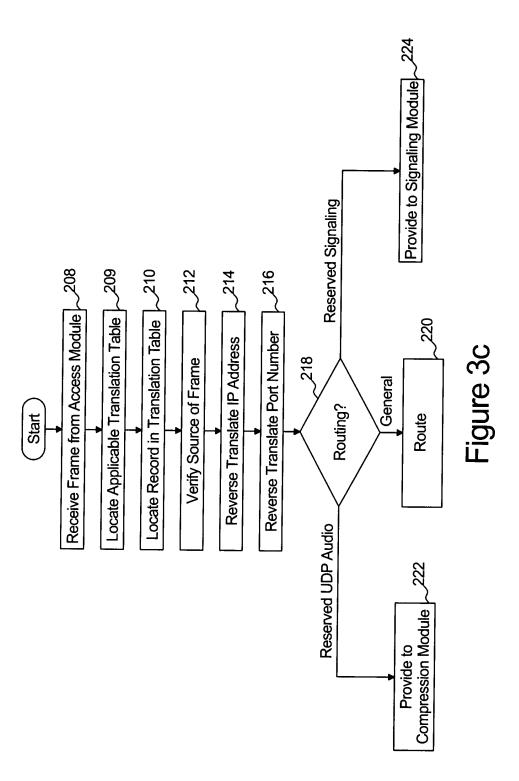


Figure 3b



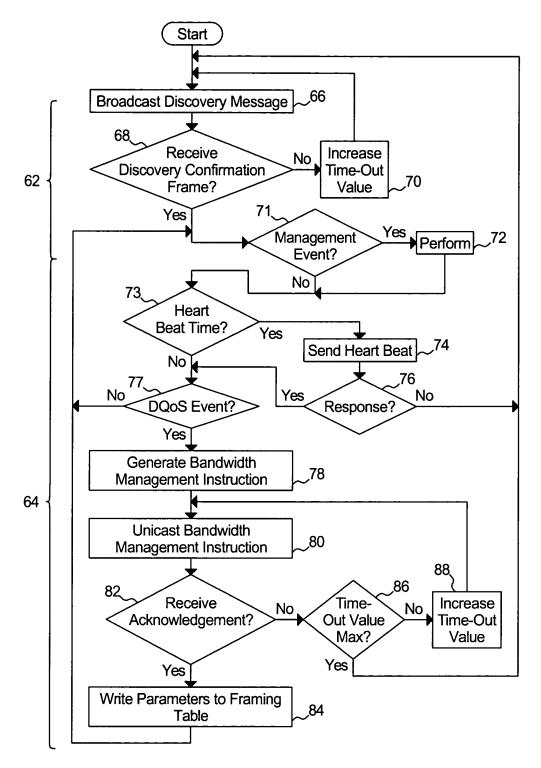


Figure 4

4 5	Bandwidth Mana	gement Instruction		DOCS	→ DOCSIS_DQoS			Goos	
2	DOCSIS_DC	DOCSIS_DQoS Acknowledge		Bandw	idth Man	ageme	Bandwidth Management Instruction	Application 100	
106	Discrimination Ta	able							
	Soning Flow	Discrimination ID 90e	D 90e						
	Sel vice L'IOW ID	Source Address 91a	_	Source Port 91b		Destina	Destination Address 91c	c Destination Port 91d	nt 91d
•									
9			1						
<u>)</u> <u>8</u>	Service Flow Tab	ole .							
	Service Flow ID	Frame Period 109a	Frame Phase 109b	Phase	Frame Size 109c	ize	QoS Policy 109d	Service State 109e	

Figure 5

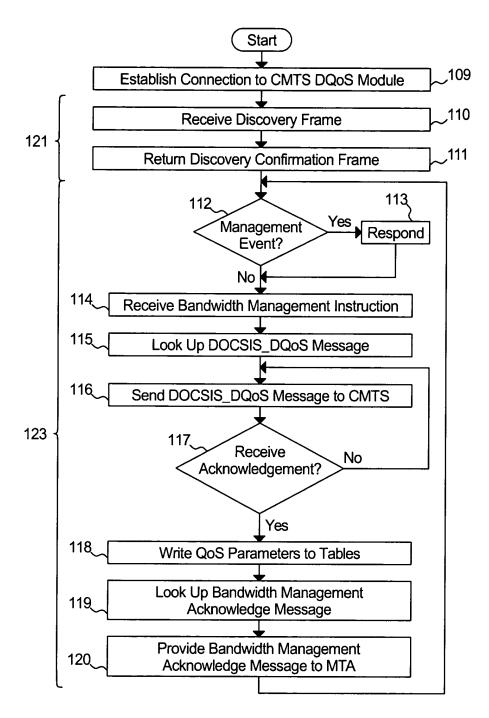


Figure 6

	Message Title	Exemplary Data Fields]
90	Dynamic Service Addition (DSA)	Service Flow Reference	~90a
		Requested Framing Frequency]~90b
		Requested Frame Size]~ ^{90c}
		Requested Jitter	90d
		Requested QoS Policy	90e
		Requested Service State]~90f
		Discriminator Identification]~ ^{90g}
92	Dynamic Service Change (DSC)	Service Flow ID	92a
		Requested Framing Frequency	92b
		Requested Frame Size	~ ^{92c}
		Requested Jitter	~ ^{92d}
		Requested QoS Policy	}~ ^{92e}
		Requested Service State	~92f
		Discriminator Identification]~ ^{92g}
94	Dynamic Service Delete (DSD)	Service Flow ID	94a

Figure 7

	Message Title	Exemplary Data Fields	
122	Dynamic Service Addition Acknowledge	Service Flow Reference	
	(DSA_ACK)	Service Flow ID	~122a
		Acknowledged Framing Period	~_122b
		Acknowledged Frame Size	~122c
		Acknowledged Jitter	~122d
		Acknowledged QoS Policy	122e
		Acknowledged Service State	~122f
		Acknowledged Discriminator ID	122g
,			
124	124 Dynamic Service Change Acknowledge	Service Flow ID	~_124a
	(DSC_ACK)	Acknowledged Framing Period	124b
		Acknowledged Frame Size	~124c
		Acknowledged Jitter	124d
		Acknowledged QoS Policy	~_124e
		Acknowledged Service State	√124f
		Acknowledged Discriminator ID	~_124g
126	Dynamic Service Delete Acknowledge (DSD_ACK)	Service Flow ID	126a

Figure 8

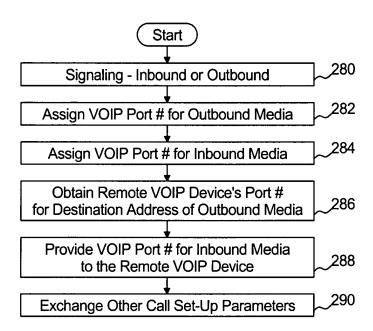


Figure 9

Outbound Data Client IP Frame 230	Client IP Fram	ne <u>230</u>			
Socket Information 232	on <u>232</u>				
Data Client	Data Client Destination		Destination	Protocol	Destination Protocol Payload 234
IP Address 176	Port # <u>178</u>	IP Address 176 Port # 178 IP Address 182 Port # 184 179	Port # 184	<u>179</u>	



		Destination Protocol Payload 234 Port # 184 179
:		Protoα 179
		Destination Port # 184
Translated Outbound Data Client IP Frame 240		182
ound Data Cli	OI 242	MTA Global Port # 180
Translated Outbound Di	SOCRET II II II II II II II II	MTA Global MTA Global Destination IP Address 2

Figure 10

Outbound Data VOIP Frame 250	/OIP Frame	250			
Socket Information 252	on <u>252</u>				
MTA Global	VOIP	Destination	Destination	Protocol	Destination Protocol Payload 254
IP Address 185 Port # 258 IP Address 182 Port # 184	Port # <u>258</u>	IP Address 182	Port # 184	- 133 33	

Outbound Data VOIP Frame 250'	VOIP Frame 2	<u>250'</u>			
Socket Information 252'	on <u>252'</u>				
Module	VOIP	Destination	Destination	Protocol	Destination Protocol Payload 254
IP Address 260 Port # 258 IP Address 182 Port # 184	Port # <u>258</u>	IP Address 182	Port # 184	183	



Outbound VOIP Frame 264	Frame <u>264</u>				
Socket Information 266	on <u>266</u>				
MTA Global	VOIP	Destination	Destination	Protocol	Destination Protocol Payload 254
IP Address 185 Port # 258	Port # <u>258</u>	IP Address 182 Port # 184	Port # 184	183	

Figure 11

		9				Payload <u>276</u>				Payload 276				Payload <u>276</u>
		Payload <u>276</u>				Source Port # 105				Source Port # 195				Source Port # 105
		Source 3 Port # 195		271		Source ID Address 184		<u>271'</u>		Source IP Address 184			30	Source Source
		Source IP Address 193		rame (VOIP)		Protocol Source		rame (VOIP)		Protocol Source	1	-rame <u>278</u>	iformation 28	Protocol
		191	Inbound Audio or Signaling Frame (VOIP) 271	ion <u>272</u>	MTA Global VOIP IP Address 185 Port # 274		or Signaling Fr	ion <u>272'</u>	VOIP Port # 274		e Translated F	ated Socket In	Data Client Protocol Source	
le <u>270</u>	on <u>272</u>			Inbound Audio	Socket Information 272	MTA Global		Inbound Audio or Signaling Frame (VOIP) 271'	Socket Information 272	Module VOIP IP Address 260 Port # 274		General Reverse Translated Frame 278	Reverse Translated Socket Information 280	Data Client Data Client P Address 176 Port # 176
Inbound IP Frame 270	Socket Information 272	MTA Global Destination IP Address 185 Port # 274			4				4	•	J 		4	

Figure 12